

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the present application:

1. (Currently Amended) A system for reducing perceived latency in servicing user requests for to access unsolicited information made from remote wireless devices, the system comprising a computer to

(a) receive the unsolicited information according to a first transmission protocol in a first form, and

(b) in response to the receipt of the unsolicited information and recipient identification:

(1) to generate a plurality of message entities that convey embody at least a portion of the contents of the unsolicited information in a second form that differs from the first form, and

(2) to send the a set of message entities according to a second transmission protocol that differs from the first transmission protocol so as to be received by a respective remote wireless device associated with the intended recipient, wherein the second transmission protocol is optimized for use with a wireless device; the set of message entities including said plurality of message entities, the set of message entities configured to cause the remote wireless device to output a notification relating to the unsolicited information only after the plurality of message entities have been received by the remote wireless device; and

~~{3} to send a notification via the transmitter so as to be received by the respective remote device, wherein the notification indicates the plurality of message entities have previously been sent to the respective remote device.~~

2. (Original) A system according to claim 1 wherein the message entities in the second form preserve the order of the unsolicited information in the first form.

3. (Original) A system according to claim 1 wherein the first transmission protocol conforms to a hypertext transfer protocol and the second transmission protocol conforms to a handheld device transfer protocol.

4. (Currently amended) A system according to claim 1 wherein the first form conforms to a first (hypertext) markup language specification and the second form conforms to a second (handheld device) markup language.

5. (Currently amended) A system according to claim 1 wherein the computer is to: determine a type of content conveyed by the message entities, check whether the type of content is acceptable to the respective remote wireless device, and if not acceptable, convert the content into another type before sending it the content to the respective remote wireless device.

6. (Currently amended) A system for reducing perceived latency in servicing user requests for to access unsolicited information made from remote wireless devices, the system comprising a computer to

(a) receive from a hypermedia server the unsolicited information and an identification of an intended recipient of the unsolicited information, and

(b) in response to the receipt of the unsolicited information and the recipient identification:

(1) to generate a plurality of message entities that ~~convey~~ embody at least a portion of the contents of the unsolicited information, wherein the plurality of message entities are represented by one or more cards arranged in a deck of information, at least one of the cards conveying a link to another deck or to a resource available by way of the hypermedia server, and

(2) to send the deck via ~~the~~ a transmitter so as to be received by a ~~respective~~ remote wireless device associated with the intended recipient, the deck configured to cause the remote wireless device to output a notification relating to the unsolicited information only after the plurality of message entities have been received by the remote wireless device and stored therein and

~~(3) to send a notification via the transmitter so as to be received by the respective remote device, wherein the notification indicates the plurality of message entities have previously been sent to the respective remote device.~~

7. (Currently amended) A system according to claim 6 wherein each of the cards has a respective type within a set of types including a type that is to be displayed by the respective remote wireless device, a type that is not to be displayed, a type that offers a choice to a user, and a type that allows a user to enter information.

8. (Currently amended) A system according to claim 6 wherein a ~~respective~~ card in the deck includes access control information that indicates whether information conveyed in the ~~respective~~ card has access restricted to specific decks.

9. (Original) A system according to claim 6 wherein the deck has a unique identifier in the form of a Uniform Resource Locator (URL).

10. (Original) A system according to claim 6 wherein the notification includes a link to a service in any of the remote device, the computer or the hypermedia server that, when invoked, acts on the notification.

11. (Currently amended) A system for reducing perceived latency in servicing user requests ~~for~~ to access unsolicited information made from remote wireless devices, the system comprising a computer to

(a) receive from a hypermedia server the unsolicited information and an identification of an intended recipient of the unsolicited information,

(b) in response to the receipt of the unsolicited information and recipient identification, to cause the computer:

(1) to generate a plurality of message entities that convey at least a portion of the ~~contents of the~~ unsolicited information, and

(2) to send the a set of message entities so as to be received by a respective remote wireless device associated with the intended recipient, the set of message entities including said plurality of message entities, the set of message entities

configured to cause the remote wireless device to output a notification relating to the unsolicited information only after the plurality of message entities have been received by the remote wireless device and

~~(3) to send a notification so as to be received by the respective remote device, wherein the notification indicates the plurality of message entities have previously been sent to the respective remote device;~~

(c) establish a communication session with the ~~respective~~ remote wireless device, wherein a set of session parameters are established that is unique to the communication session,

(d) receive a request for services from the ~~respective~~ remote wireless device during the communication session, wherein the request includes a set of request parameters that is unique to the request, and

(e) build a get-request to send to the hypermedia server, wherein the get-request includes one or more parameters from each of the set of session parameters and the set of request parameters.

12. (Previously presented) A system according to claim 11 wherein the computer is to: detect a conflict between a parameter in the set of session parameters and a parameter in the set of request parameters, and include a parameter in the get request that represents a resolution of the conflict in favor of the parameter in the set of request parameters.

13. (Previously presented) A system according to claim 11 wherein the computer is to establish a set of common parameters that are shared by multiple users and sessions.

14. (Previously presented) A system according to claim 13 wherein the computer is to:

detect a conflict in respective parameters in the set of common parameters, the set of session parameters and the set of request parameters, and

include a parameter in the get request that represents a resolution of the conflict in favor of the parameter in the set of request parameters first, the parameter in the set of session parameters second, and the parameter in the set of common parameters last.

15. (Currently amended) A system according to claim 1, 6 or 11 that further comprises the ~~respective~~ remote wireless device,

to receive via the receiver the ~~plurality~~ set of message entities and, in response thereto, to store in the second storage one or more first records representing contents of the message entities, and

~~to receive via the receiver the notification and, in response thereto, to present an alert notifying to output said notification to notify the intended recipient that the first records are stored in the second storage.~~

16. (Currently amended) A system according to claim 15 wherein the ~~respective~~ remote wireless device is a wireless telephone.

17. (Currently amended) A system according to claim 15 wherein the ~~respective~~ remote wireless device is a handheld device.

18. (Currently amended) A system according to claim 15 wherein the remote wireless device is to store the notification in persistent storage, and to display a list of notifications that have been received by the remote wireless device.

19. (Currently amended) A system according to claim 18 wherein the remote wireless device is to display an indication of which notifications in the list have been acted upon by an operator of the remote wireless device.

20. (Currently amended) A system according to claim 18 wherein the remote wireless device is to determine whether a received notification is a duplicate of another notification already stored.

21. (Currently amended) A device for use in a system for reducing perceived latency in servicing one or more user requests ~~for to access unsolicited~~ information made from the device, wherein the device ~~is remotely located with respect to a computer and~~ communicates with ~~the a remote~~ computer, and wherein the device comprises a receiver, a display, an input device, a storage, and a processor ~~executing and~~ a program, for execution by the processor, that provides:

communication facilities ~~that to~~ receive information by the receiver from the remote computer over a wireless link,

interface facilities ~~that~~ to present information by the display and receive input by the input device, and

navigation facilities ~~that~~ to traverse Uniform Resource Locator (URL) links; and wherein:

the communication facilities are further to receive a plurality set of message entities from the remote computer, the set of message entities including a plurality of message entities representing the unsolicited information and, in response thereto to which, the storage records the plurality of message entities, the set of message entities configured to cause the device to output a notification relating to the unsolicited information only after the plurality of message entities have been received by the device and stored in the storage, and

~~the communication facilities receive a notification and, in response thereto, the interface facilities present a notification that the message entities have previously been recorded in the storage, and~~

the interface facilities are further to receive a user request and, in response thereto, present the unsolicited information to a user of the device, wherein the unsolicited information is obtained for presentation by the navigation facilities traversing a URL link conveyed by a message entity of the plurality of message entities.

22. (Original) A device according to claim 21 wherein the navigation facility traverses the URL link to obtain unsolicited information from the storage.



23. (Original) A device according to claim 21 wherein the navigation facility traverses the URI link to obtain unsolicited information from the computer.

24. (Currently amended) A device according to claim 21 wherein the message entities are represented by one or more cards arranged in a deck of information, at least one of the cards conveying a link to another deck or to a resource available by way of the remote computer.

25. (Currently amended) A device according to claim 24 wherein each of the cards has a respective type within a set of types including a type that is to be presented by the display, a type that is not to be presented, and a type that allows entry of information through the input device.

26. (Currently amended) A device according to claim 24 wherein a respective card in the deck includes access control information that indicates whether information conveyed in the respective card has access restricted to specific decks.

27. (Original) A device according to claim 24 wherein the deck has a unique identifier in the form of a Uniform Resource Locator (URL).

28. (Currently amended) A device according to claim 24 wherein the notification includes a link to a service provided by the device or the remote computer that, when invoked, acts on the notification.

29. (Original) A device according to claim 21 that is a wireless telephone.

30. (Original) A device according to claim 21 that is a handheld device.

31. (Original) A device according to claim 21 that comprises persistent storage, wherein the program causes the device:

to store the notification in persistent storage, and

to present a list of notifications that have been received by the device.

32. (Original) A device according to claim 31 that presents an indication of which notifications in the list have been acted upon by a user.

33. (Original) A device according to claim 31 wherein the program causes the device to determine whether a received notification is a duplicate of another notification already stored in persistent storage and to delete from persistent storage one of the duplicate notifications.